



## Confirmation of Leakage Rate according to TA-Luft

**Swissfluid AG**  
**Industriestrasse 40**  
**5600 Lenzburg / Schweiz**

**No. IS-AN5-MUC-2306-100251585-001**

We hereby confirm that the Inline Sampling Valves SIV of the named company with regard to the properties according to

- TA-Luft (18.08.2021), § 5.2.6.4
- DIN EN ISO 15848-1 (07-2017)

has been verified and approved. Details can be found in the corresponding test report with the order no. 3759980.

### The product meets the following requirements according to TA-Luft:

- Tightness or compliance with the specific leakage rate to the stem sealing system according to DIN EN ISO 15848-1, class BH, annex C
  - ≤ 2,67\*10<sup>-5</sup> mbar\*l/s or 1,00\*10<sup>-4</sup> mg/s per meter shaft circumference
  - ≤ 50 ppmv (housing seal)

#### Shaft seal:

Procedure: Suck-through method with helium according to annex A2.2, ISO 15848-1  
 Nominal width range: DN15 - DN150 resp. ½" - 6"  
 Leakage class: BH ≤ 10<sup>-4</sup> mg/s (per meter shaft circumference)  
 Stem seal: **stuffing box 1.83.9960.0009**  
**Seat seal 1.83.1086.9900**  
 Strength class: ≥ CO3/ CO12 (Temperature dependent)  
 Temperature class: -40 until +200 °C sealing system  
 -40 until +220 °C sealing system  
 -40 until +280 °C sealing system  
 Test pressure: 16 bar (considering the pressure-temp.-curve)  
 Stem seal adjustments: SSA 0 (no stem seal adjustments))

#### Housing seal:

Procedure: Sniffing method with helium to annex B, ISO 15848-1  
 Leakage class: ≤ 50 ppmv (≤ 5x 10<sup>-5</sup> mbar\*l/s)

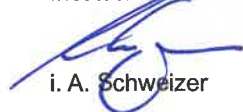
#### The product receives the marking:

Sealing system  
**ISO FE – BH – CO3 – SSA0 – t (-40 °C / +280 °C) – PN16 – ISO 15848-1**  
**ISO FE – BH – CO12 – SSA0 – t (-40 °C / +220 °C) – PN16 – ISO 15848-1**  
**ISO FE – BH – CO12 – SSA0 – t (-40 °C / +200 °C) – PN16 – ISO 15848-1**

The attestation is based on the test program of TA-Luft (18.08.2021) § 5.2.6.4 and the type test DIN EN ISO 15848-1 (07-2017), which include the leakage proof of sealing joints with regard to compliance with the specific leakage rate under the above mentioned conditions. This attestation is not valid until Swissfluid AG has carried out a leakage and material test and issued a works certificate in accordance with EN 10204, 2.2, stating the exact product designation. A prerequisite for the validity of the attestation is that the original operating instructions are observed and complied with. In order to ensure permanent tightness, the following requirements must be met for the inspection and maintenance of the sealing systems are laid down in management instructions in accordance with DIN EN 1591-4 (12-2013) or the guideline VDI 2290 (06-2021).

**This confirmation is valid until June 2026.**

Munich, 20 June 2023  
 TÜV SÜD Industrie Service GmbH  
 Institute for Plastics

  
 i. A. Schweizer

